What is claimed is:

1). A process for producing an L-amino acid, which comprises cultivating the L-amino acid-producing bacterium in a culture medium resulting in production of the L-amino acid, and collecting the L-amino acid from the culture medium, wherein the culture medium contains a mixture of glucose and pentose sugars.

2). The process according to claim 1, wherein the pentose sugars are arabinose and xylose.

3). The process according to claim 2, wherein the mixture of sugars is a feedstock mixture of sugars obtained from cellulosic biomass.

4). The process according to claim 1, wherein the L-amino acid-producing bacterium is the bacterium belonging to the genus *Escherichia*.

5). The process according to claim 4, wherein the L-amino acid-producing bacterium is modified to have increased rate of pentose sugars utilization.

6). The process according to claim 1, wherein the L-amino acid is L-isoleucine.

7). The process according to claim 6, wherein the bacterium has enhanced expression of genes for L-isoleucine biosynthesis.

8). The process according to claim 1, wherein the L-amino acid is L-histidine.

9). The process according to claim 8, wherein the bacterium has enhanced expression of genes for L-histidine biosynthesis.

10). The process according to claim 1, wherein the L-amino acid is L-threonine.

11). The process according to claim 10, wherein the bacterium has enhanced expression of genes for L-threonine biosynthesis.

12). The process according to claim 1, wherein the L-amino acid is L-tryptophan.

13). The process according to claim 12, wherein the bacterium has enhanced expression of genes for L-tryptophan biosynthesis.